Contents

Research Letters

Intranuclear topological distribution of HIV-1 trans-activators (FEBS 11178) *Y. Miyazaki, T. Takamatsu, T. Nosaka, S. Fujita, M. Hatanaka* 1

Time-resolved fluorometry of purple membrane of *Halobacterium halobium*: O_{640} and an O-like red-shifted intermediate Q (FEBS 11179) *H. Ohtani, H. Itoh, T. Shinmura* 6

Transcripts of the viroid central conserved region contain the local tertiary structural element found in full-length viroid (FEBS 11180) *C.P. Paul, B.J. Levine, H.D. Robertson, A.D. Branch* 9

Thermoregulatory, carboxyatractylate-sensitive uncoupling in heart and skeletal muscle mitochondria of the ground squirrel correlates with the level of free fatty acids (FEBS 11181) *N.N. Brustovetsky, M.V. Egorova, D.Y. Gnutov, V.G. Gogvadze, E.N. Mokhova, V.P. Skulachev* 15

Identification of the polypeptides of the major light-harvesting complex of photosystem II (LHCII) with their genes in tomato* (FEBS 11193) *B.R. Green, D. Shen, R. Aebersold, E. Pichersky* 18

Expression of myogenic factors in skeletal muscle and electric organ of *Torpedo californica* (FEBS 11190) *C.M. Neville, J. Schmidt* 23

Combinatorial RNA splicing alters the surface charge on the NMDA receptor (FEBS 11183) *V. Anantharam, R.G. Panchal, A. Wilson, V.V. Kolchine, S.N. Treistman, H. Bayley* 27

Primary structure and functional expression of a choline transporter expressed in the rat nervous system (FEBS 11184) *W. Mayser, P. Schloss, H. Betz* 31

Caf1R gene and its role in the regulation of capsule formation of *Y. pestis* (FEBS 11185) *A.V. Karlyshev, E.E. Galyov, V.M. Abramov, V.P. Zav'yalov* 37

A novel non-peptide endothelin antagonist isolated from bayberry, *Myrica cerifera* (FEBS 11186) *M. Fujimoto, S.-i. Mihara, S. Nakajima, M. Ueda, M. Nakamura, K.-s. Sakurai* 41

Structure and expression of *Xenopus* prohormone convertase PC2 (FEBS 11187) *J.A.M. Braks, K.C.W. Guldemond, M.C.H.M. van Riel, A.J.M. Coenen, G.J.M. Martens* 45

Formation and quantification of protein complexes between peroxisomal alcohol oxidase and GroEL (FEBS 11188) *M.E. Evers, T. Langer, W. Harder, F.-U. Hartl, M. Veenhuis* 51

A molecular model for the tumour-associated antigen, p97, suggests a Zn-binding function (FEBS 11182) *R.C. Garratt, H. Jhoti* 55

The polyoxyethylene/polyoxypropylene block co-polymer Poloxamer-407 selectively redirects intravenously injected microspheres to sinusoidal endothelial cells of rabbit bone marrow (FEBS 11191) *C.J.H. Porter, S.M. Moghimi, L. Illum, S.S. Davis* 62

Characterization of the *pcp* gene encoding the pyrrolidone carboxyl peptidase of *Bacillus subtilis** (FEBS 11189) *A. Awadé, P. Cleuziat, T. Gonzalès, J. Robert-Baudouy* 67

Errata and Corrigenda 75

Identification of the atrial natriuretic factor-R_{1C} receptor subtype (B-clone) in cultured rat aortic smooth muscle cells (FEBS 11192) *J. Féthière, R. Graihle, A. De Léan* 77

Heat-labile enterotoxin crystal forms with variable A/B_5 orientation: Analysis of conformational flexibility (FEBS 11194) *T.K. Sixma, A. Aguirre, A.C.T. van Scheltinga, E.S. Wartna, K.H. Kalk, W.G.J. Hol* 81

Phosphoramidon-sensitive endothelin-converting enzyme in vascular endothelial cells converts big endothelin-1 and big endothelin-3 to their mature form (FEBS 11197) *Y. Matsumura, Y. Tsukahara, K. Kuninobu, M. Takaoka, S. Morimoto* 86

Fibronectin type III-like sequences and a new domain type in prokaryotic depolymerases with insoluble substrates (FEBS 11195) *C.K. Hansen* 91

The effect of the UL42 protein on the DNA polymerase activity of the catalytic subunit of the DNA polymerase encoded by herpes simplex virus type 1 (FEBS 11196) *G.J. Hart, R.E. Boehme* 97

Biological activity of bovine placental lactogen in 3T3-F442A preadipocytes is mediated through a somatogenic receptor (FEBS 11198) *D. Vashdi, G. Elberg, E. Sakal, A. Gertler* 101

^{1}H NMR study on the conformation of bacitracin A in aqueous solution (FEBS 11201) *N. Kobayashi, T. Takenouchi, S. Endo, E. Munekata* 105

Cloning and expression of a glycine transporter from mouse brain (FEBS 11200) *Q.-R. Liu, H. Nelson, S. Mandiyan, B. López-Corcuera, N. Nelson* 110

Synthesis and characterization of a 29-amino acid residue DNA-binding peptide derived from α/β-type small, acid-soluble spore proteins (SASP) of bacteria (FEBS 11202) *H. Rao, S.C. Mohr, H. Fairhead, P. Setlow* 115

Phosphorylation of the phosphatase modulator subunit (inhibitor-2) by casein kinase-1: Identification of the phosphorylation sites (FEBS 11199) *P. Agostinis, O. Marin, P. James, P. Hendrix, W. Merlevede, J.R. Vandenheede, L.A. Pinna* 121

Measurement of GTPγS binding to specific G proteins in membranes using G-protein antibodies (FEBS 11205) *T. Okamoto, T. Ikezu, Y. Murayama, E. Ogata, I. Nishimoto* 125

Characterization of carbohydrates in the α_2-macroglobulin receptor (FEBS 11217) *P.H. Jensen, J. Gliemann, T. Ørntoft* 129

Targeting efficiencies of various permutations of the consensus C-terminal tripeptide peroxisomal targeting signal (FEBS 11218) *B.W. Swinkels, S.J. Gould, S. Subramani* 133

Stereospecific assignments and $\chi 1$ rotamers for FKBP when bound to ascomycin from $^3J_{H^\alpha,H^\beta}$ and $^3J_{N,H^\beta}$ coupling constants (FEBS 11203) *R.X. Xu, E.T. Olejniczak, S.W. Fesik* 137

Minimal functional size of porcine lung and testicular angiotensin-converting enzymes deduced from radiation inactivation analysis: Interaction of two highly homologous domains in somatic isoenzyme (FEBS 11204) *H. Sakaguchi, S. Hirose, T. Kume, H. Hagiwara* 144

Heat shock proteins of barley mitochondria and chloroplasts: Identification of organellar hsp 10 and 12: putative chaperonin 10 homologues (FEBS 11216) *D.J. Hartman, D. Dougan, N.J. Hoogenraad, P.B. Høj* 147

Calcium administration stimulates the expression of calcium-binding protein regucalcin mRNA in rat liver (FEBS 11210) *N. Shimokawa, M. Yamaguchi* 151

Oxidized low density lipoproteins elicit DNA fragmentation of cultured lymphoblastoid cells (FEBS 11213) *I. Escargueil, A. Nègre-Salvayre, M.-T. Pieraggi, R. Salvayre* 155

Stimulation of human nitric oxide synthase by tetrahydrobiopterin and selective binding of the cofactor (FEBS 11234) *P. Klatt, B. Heinzel, B. Mayer, E. Ambach, G. Werner-Felmayer, H. Wachter, E.R. Werner* 160

Nucleotide composition of genes and hydrophobicity of the encoded proteins (FEBS 11250) *J. Mázek, J. Kypr* 163

Errata and Corrigenda 166

Published by Elsevier Science Publishers B.V.

Characterisation of a near infra-red absorption band of the *Escherichia coli* quinol oxidase, cytochrome *o*, which is attributable to the high-spin ferrous haem of the binuclear site (FEBS 11211) *W.J. Ingledew, M. Bacon, P.R. Rich* 167
Detection of a near infra-red absorption band of ferrohaem a_3 in cytochrome *c* oxidase (FEBS 11212) *P.R. Rich, A.J. Moody, W.J. Ingledew* 171
Photosensitivity of 8BrcGMP-induced conductance in ROS-excised patches (FEBS 11220) *A.V. Kosolapov, M.C. Khalifa-Zade, S.S. Kolesnikov* 174
A relationship between the starting secondary structure of recombinant porcine growth hormone solubilised from inclusion bodies and the yield of native (monomeric) protein after in vitro refolding (FEBS 11215) *N.K. Puri, M. Cardamone* 177
The envelope glycoprotein of Ebola virus contains an immunosuppressive-like domain similar to oncogenic retroviruses (FEBS 11222) *V.E. Volchkov, V.M. Blinov, S.V. Netesov* 181
Interaction between oleic acid-containing pH-sensitive and plain liposomes: Fluorescent spectroscopy studies (FEBS 11223) *V.P. Torchilin, A.N. Lukyanov, A.L. Klibanov, V.G. Omelyanenko* 185
Isolation of a new ligand-carrying casein fragment from bovine mammary gland microsomes (FEBS 11214) *B. Neuteboom, M.G. Giuffrida, A. Conti* 189
Phosphorylation of vascular smooth muscle caldesmon by endogenous kinase (FEBS 11224) *K. Pinter, S.B. Marston* 192
Relationship between membrane lipid mobility and spectrin distribution in lymphocytes (FEBS 11228) *M. Langner, E.A. Repasky, S.-W. Hui* 197
Glycosylation inhibits the interaction of invertase with the chaperone GroEL (FEBS 11225) *G. Kern, M. Schmidt, J. Buchner, R. Jaenicke* 203
Observation of the Fe^{IV}=O stretching Raman band for a thiolate-ligated heme protein: Compound I of chloroperoxidase (FEBS 11229) *T. Egawa, H. Miki, T. Ogura, R. Makino, Y. Ishimura, T. Kitagawa* 206
Phorbol ester-induced redistribution of the ASGP receptor is independent of receptor phosphorylation (FEBS 11248) *I. Geffen, M. Spiess* 209
Identification of a membrane-associated 1-0-alkyl-2-arachidonoyl-*sn*-glycero-3-phosphocholine hydrolyzing phospholipase A_2 in guinea pig 1 epidermis: Implications in the cutaneous biosynthesis of platelet-activating factor (FEBS 11241) *B. Wong, W. Tang, V.A. Ziboh* 213
Specific binding of CAP-50 to calcyclin (FEBS 11232) *H. Minami, H. Tokumitsu, A. Mizutani, Y. Watanabe, M. Watanabe, H. Hidaka* 217
De-novo biosynthesis of chlorinated aromatics by the white-rot fungus *Bjerkandera* sp. BOS55: Formation of 3-chloro-anisaldehyde from glucose (FEBS 11231) *E. de Jong, J.A. Field, J.A.F.M. Dings, J.B.P.A. Wijnberg, J.A.M. de Bont* 220
Evidence of a tertiary interaction functional in group I 3′-splicing (FEBS 11238) *A. Fernández, A. Belinky* 225
Parathyroid hormone-related peptide can regulate the growth of human lung cancer cells, and may form part of an autocrine TGF-α loop (FEBS 11239) *P.B.J. Burton, D.E. Knight* 228
Electron spin resonance study on the permeability of superoxide radicals in lipid bilayers and biological membranes (FEBS 11243) *G.D. Mao, M.J. Poznansky* 233
Activation of nucleoside diphosphate kinase by mastoparan, a peptide isolated from wasp venom (FEBS 11246) *S. Kikkawa, K. Takahashi, K.-i. Takahashi, N. Shimada, M. Ui, N. Kimura, T. Katada* 237
Interleukin-8 receptor-mediated chemotaxis of normal human epidermal cells (FEBS 11247) *G. Michel, L. Kemény, R.U. Peter, A. Beetz, C. Ried, P. Arenberger, T. Ruzicka* 241
Upstream activation element of the *PH03* gene encoding for thiamine-repressible acid phosphatase in *Saccharomyces cerevisiae* (FEBS 11249) *K. Nosaka, K. Yamanishi, H. Nishimura, A. Iwashima* 244
Solubilization steps of dark-adapted purple membrane by Triton X-100: A spectroscopic study (FEBS 11256) *O. Meyer, M. Ollivon, M.-T. Paternostre* 249
Effects of apocynin, a drug isolated from the roots of *Picrorhiza kurroa*, on arachidonic acid metabolism (FEBS 11262) *F. Engels, B.F. Renirie, B.A. 't Hart, R.P. Labadie, F.P. Nijkamp* 254
Is thioredoxin the physiological vitamin K epoxide reducing agent? (FEBS 11252) *P.C. Preusch* 257
Chlorpheniramine inhibits the ornithine decarboxylase induction of Ehrlich carcinoma growing in vivo (FEBS 11253) *J.L. Urdiales, J.M. Matés, I. Núñez de Castro, F.M. Sánchez-Jiménez* 260
A 17.6 kbp region located upstream of the rabbit WAP gene directs high level expression of a functional human protein variant in transgenic mouse milk (FEBS 11266) *R. Bischoff, E. Degryse, F. Perraud, W. Dalemans, D. Ali-Hadji, D. Thépot, E. Devinoy, L.-M. Houdebine, A. Pavirani* 265

Author Index to Volume 305 269

Contents to Volume 305 273

Erratum 275

Order Form for 'Index of Biochemical Reviews' last page